

The sub miniature ECS-TXO-2016 is a miniature SMD CMOS TCXO. The 2.0 x 1.6 x 0.8 mm ceramic package is ideal for LoRa WAN, and wireless IoT applications where stability is critical.

ECS-TXO-2016

SMD HCMOS TCXO

[Request a Sample](#)

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



- Low Profile
- 2.0 x 1.6 mm Footprint
- Extended Temp Range
- RoHS Compliant

DIMENSIONS (mm)

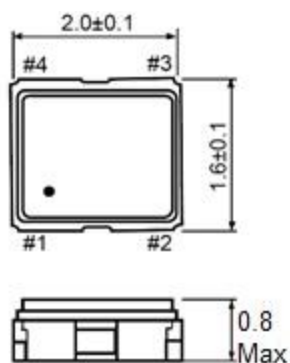
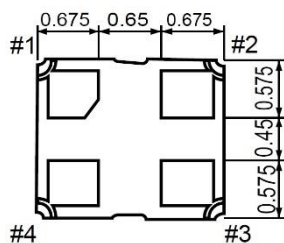


Figure 1) Top, Side, and Bottom views



CURRENT CONSUMPTION, mA Max.

FREQ.	9.5 ~ 10 MHz	10.1 ~ 20 MHz	20.1 ~ 30 MHz	30.1 ~ 40 MHz	40.1 ~ 60 MHz
+1.8V & +2.5V	3.1	3.7	4.2	4.6	5.5
+2.8V & +3.3V	4.0	4.8	5.5	6.0	7.0

PAD CONNECTIONS	
1	Tri-state
2	Gnd
3	Output
4	Vdd

Tri State Function	
Pin 1	Output
High or NC	Active
Low	Disable Hi-Z

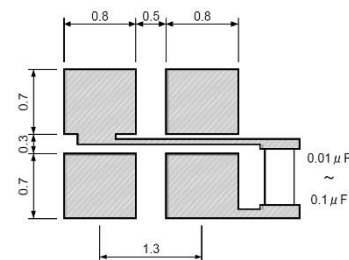


Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-TXO-2016-33-160-TR

ECS - SERIES	Voltage	FREQUENCY ABBREVIATION	PACKAGING
TXO-2016 2.0 x 1.60 mm TCXO	18 = +1.8V 25 = +2.5V 28 = +2.8V 33 = +3.3V	160 = 16.000 MHz See Developed Frequencies Pg.2	TR = Tape & Reel 1K/Reel

FREQUENCY ABBREVIATIONS

FREQUENCY MHz	CODE
10.000	100
12.000	120
16.000	160
20.000	200
25.000	250
32.000	320
40.000	400
50.000	500

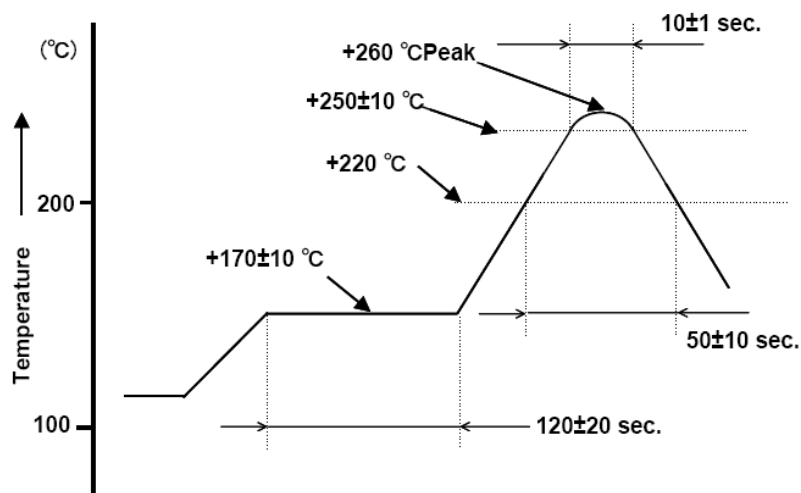


Figure 1) Suggested Reflow Profile

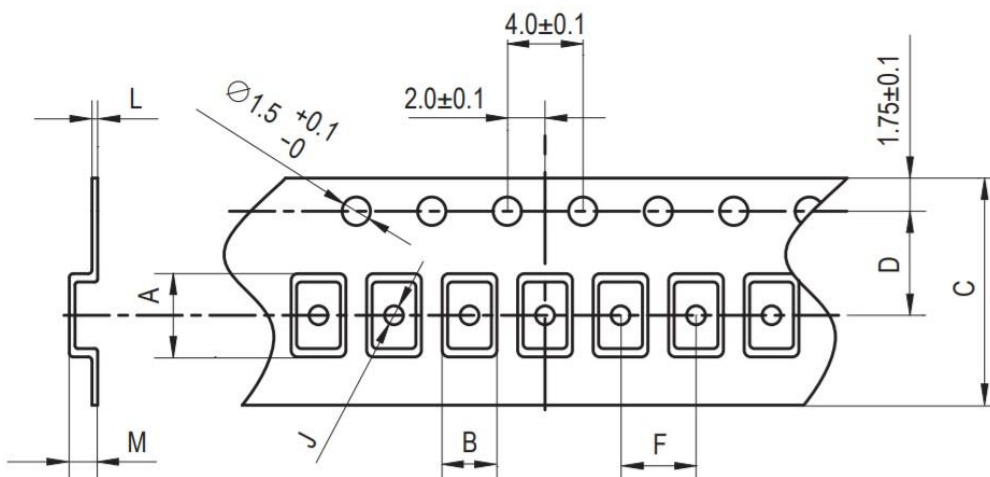
SOLDER PROFILE

Peak solder Temp +260°C Max 10 sec Max.

2 Cycles Max.

MSL 1, Lead Finish Au

POCKET TAPE DIMENSIONS (mm)



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
2.2	1.8	8.0	3.5	4.0	1.0	0.25	1.0	180	1000pcs